

Yusra Suhail

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PROFILE

Highly motivated and self-directed Software Developer skilled in design, programming, and debugging. Exhibited problem-solving skills through leading multiple projects as an IT consultant, Research Assistant, and a student. Exceptional detail-oriented communication ensuring high-quality work. Passionate about working on Human-Centered designs.

EDUCATION

University of Rhode Island, Kingston, RI **May 2025**
Major: Master of Science in Computer Science

University of Rhode Island, Kingston, RI **May 2023**
Major: Bachelor of Science in Computer Science with a minor in Cyber Security
Honors: CGPA: **3.93/4.00**, Deans List (All semesters), Centennial Scholar, Summa Cum Laude

SKILLS

- Python, C++, C, Rust, Snakemake, Asteroid, Database Designing, SQL, Java, JavaScript, HTML, Bash Scripting, OOP
- Windows, Mac, Linux, Git, GitHub, Microsoft Office, Pandas DB, Bootstrap, Collab Notebooks, Trello
- Database Management, Machine Learning, Numpy, Data Structures, Algorithms, Computer Hardware, Operating Systems

WORK EXPERIENCE

UNIVERSITY OF RHODE ISLAND

Graduate Research Assistant (Human-Centered Experiential Technologies Lab) **August 2023– Present**

- Collaborating with advisor on Human Computer Interaction research to optimize web user experiences.
- Spearheading a project utilizing JavaScript and Rust for readability studies, tailoring user font preferences for enhanced experiences

Graduate Research Assistant (Bioinformatics Lab) **July 2023 – August 2023**

- Successfully transitioned beyond my expertise to learn Snakemake and construct a specialized mitochondrial variant analysis pipeline for bioinformatics lab.
- Delivered the pipeline within four weeks, showcasing adaptability and rapid skill acquisition.

Lead Information Technology Service Desk Consultant **September 2021 – May 2023**

- Accelerated through promotions from Consultant to Lead within two years for pivotal team contributions.
- Orchestrated inter-departmental communication as primary liaison for URI Information Technology Services (ITS).
- Oversaw Azure Active Directory for URI domain administration, balancing user support and project leadership.
- Routinely analyzed and ascertained the department's IT needs and implemented appropriate solutions in a timely fashion

Research Intern **September 2022 – December 2022**

- Refactored an application written in JavaScript using React and Redux to make the code precise, easy to read and usable for Psychology researchers to analyze data

Teaching Assistant (Social and Ethical Issues in Computing) **September 2021 – May 2023**

- Enhanced student performance by 20% through effective grading and personalized assistance for students
- Reduced administrative workload by 30% in managing the course, efficiently coordinating meetings, grading assignments and supporting colleagues and the professor

PROJECTS

Anime Recommender System **October 2023 – December 2023**

- Engineered an Anime Recommender System employing collaborative filtering techniques of Machine Learning
- Emphasized user-based filtering in python while exploring item-based methods for enhanced recommendation diversity

Computational Geometry **January 2023 – July 2023**

- Engineered C++ libraries on Open GL for point and segment creation, employing Computational Geometry expertise, Object Oriented Programming and smart pointers to enable intersection detection via brute force and smart algorithm
- Utilized XCode's debugging tools to swiftly troubleshoot code errors, including segmentation faults

Universal Virtual Machine (UM) in Rust **April 2022**

- Developed UM with 8 registers, segmented memory, I/O device, and a 32-bit program counter to parse byte level instructions

URI Memorial Union Website Redesign **September 2021 - May 2022**

- Collaborated with a team member and redesigned school website to improve public engagement by implementing a new theme, enhancing layout, interactivity and visual appeal using HTML and Graphical User Interface

Submarine Survival **September 2021 - December 2021**

- Created a Java game with a team utilizing Agile, software development life cycle, object-oriented approach, and unit testing
- Produced a comprehensive Software Requirement Specification with UML diagrams and functional requirements